



DEPARTMENT OF WATER RESOURCES  
EXAMINATION ANNOUNCEMENT



The Department of Water Resources offers Equal Opportunity for all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or sexual orientation.

It is an objective of the State of California to achieve a drug-free State workplace. Any applicant for State employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service and the special trust placed in public servants.

ASSOCIATE HYDROELECTRIC POWER UTILITY ENGINEER  
OPEN/NON – PROMOTIONAL  
CONTINUOUS

FINAL FILING DATE	CONTINUOUS FILING There is no final filing date. Testing is considered continuous as dates can be set at any time. The testing office will accept applications continuously and will notify and test applicants as needs warrant.
WHO SHOULD APPLY	Applications will not be accepted on a promotional basis. Career promotional credits will be granted.
HOW TO APPLY	Submit applications to:  Department of Water Resources P.O. Box 942836 1416 9th Street, Room 320 Sacramento, CA 94236-0001  Applications may be delivered in person to the street address above.
DO NOT SUBMIT APPLICATIONS TO THE STATE PERSONNEL BOARD	
IDENTIFICATION REQUIRED	Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.
SPECIAL TESTING ARRANGEMENTS	If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the “Application for Examination”. You will be contacted to make specific arrangements.
SALARY RANGE	\$6271 - \$7616
ELIGIBLE LIST INFORMATION	A departmental open/nonpromotional eligible list will be established for the Department of Water Resources. Names of successful competitors will be merged onto the list in order of final scores. Eligibility for new candidates will expire after <b>24 months</b> , and competitors may test only once during a <b>12-month testing period</b> .
REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION	<b>NOTE:</b> All applicants must meet the minimum qualifications for this examination by the final filing date.  Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as “ <b>Either</b> ” I, “ <b>or</b> ” II, “ <b>or</b> ” III, <b>etc.</b> For example, candidates possessing qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.
MINIMUM QUALIFICATIONS	Graduation from college with major work in electrical, electronic, mechanical, or civil engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.)  <b>Either I</b>  Two years of engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment the Electrical Engineer, Range B, or Mechanical Engineer, Range B, level in California state service.  <b>Or II</b>  Three years of engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment, at least two years of which shall have been comparable in responsibility to that of an Electrical Engineer, Range B, or Mechanical Engineer, Range B, in California state service.
POSITION DESCRIPTION	Associate Hydroelectric Power Utility Engineer is the full journey level. Under direction, incumbents perform difficult engineering work relating to the electric utilities field and/or operation and maintenance of pumping and generating equipment, and other related work.  <i>Positions exist statewide with the Department of Water Resources.</i>
EXAMINATION INFORMATION	This examination will consist of a <b>Supplemental Application – Weighted 50.00%</b> and a <b>Qualifications Appraisal Interview – Weighted 50.00%</b> . In order to obtain a position on the eligible list, a minimum rating of 70.00% must be attained in the supplemental application and interview. <b>COMPETITORS WHO DO NOT COMPLETE A SUPPLEMENTAL APPLICATION WILL NOT BE ALLOWED TO CONTINUE IN THE EXAMINATION.</b>

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

SCOPE OF EXAMINATION	Qualifications Appraisal Interview – Weighted 50.00% Supplemental Application – Weighted 50.00%
	<p>In addition to evaluating the competitors' relative abilities as demonstrated by quality and breadth of experience, emphasis in the examining Supplemental Applications and interview will be on measuring competitively, relative to job demands, each competitor's:</p> <p><b>A. Knowledge of:</b></p> <ol style="list-style-type: none"><li>Engineering theory and practices relating to power generation, transmission, distribution, and bulk power marketing.</li><li>Electric utility operation and management.</li><li>Functions, responsibilities, and procedures of regulatory and government agencies including the Public Utilities Commission, the Federal Energy Regulatory Commission, and the California Energy Commission, in the electric utility field.</li><li>Planning, design, construction, and operation, of major generation, power transmission systems pumping.</li><li>Methods of determining the optimum capacity and energy output generating plants.</li><li>Power marketing and economics, including the market for and value of electric power, methods of the marketing power and rates, agreement.</li><li>Operating, maintaining and testing of electrical and mechanical equipment and systems for plants, switchyards, reservoir outlets and aqueduct control features.</li><li>Environmental issues and policies.</li><li>Unit operating and loading procedures and criteria.</li><li>Standards of the American National Standards Institute, Institute of Electrical and Electronic Engineers, and American Society of Mechanical Engineers.</li><li>Methods of maintenance, repair, and testing, including but not limited to the following: Instrumentation and control circuitry and electrical protection, Servo systems and governors, Bearings and lubrication, Metal working, machining and welding.</li><li>Alignment and balancing of rotating machinery including vibration measurement.</li><li>Power system operation and control.</li><li>Power system studies, load flow, stability, and fault analyses.</li></ol> <p><b>B. Ability to:</b></p> <ol style="list-style-type: none"><li>Analyze situations accurately and adopt an effective course of action.</li><li>Prepare clear and concise reports.</li><li>Prepare procedures and manuals.</li><li>Make feasibility studies.</li><li>Interpret, prepare and revise electrical and mechanical drawings and schematics and relay control logic diagrams.</li><li>Assist and advice others on maintenance, repair, procedures, materials, tools.</li><li>Negotiate, administer, and coordinate contracts such as for maintenance, repair, testing, and power and transmission.</li><li>Conduct and coordinate special test activities.</li><li>Use personnel computers</li><li>Work cooperatively with others.</li></ol>

VETERANS PREFERENCE	Career Credits will be granted in this examination. Veterans Preference Credit will not be granted.
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GENERAL INFORMATION

**The Department of Water Resources** reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

**For any examination** without a written feature it is the candidate's responsibility to contact the Recruitment and Selection Services Section of the Department of Water Resources, (916) 653-4838 three weeks after the final filing date if he/she has not received a progress notice.

**Applications** are available at Department of Water Resources' offices, local office of the Employment Development Department, the State Personnel Board, and the SPB web site: [www.spb.ca.gov](http://www.spb.ca.gov).

**If you meet the requirements** stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.

**Examination Locations:** When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

**If a candidate's notice** of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open eligible list. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference credits) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.

**Devices for Communications Impairment**  
TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. TDD: (916) 653-1804; California Relay Service: 1-800-735-2929 (TDD); 1-800-735-2922 (Voice)

**For information** regarding this examination, please contact La Trice Leslie at (916) 653-5679.

O/NP (Rev. 10/07) (LL)